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V1.0

User Guide

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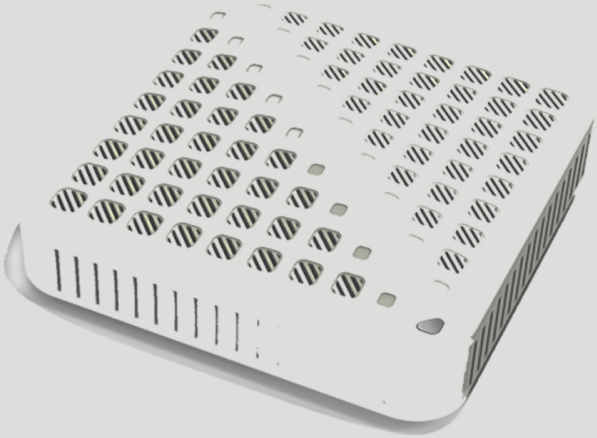

5/8-Port Desktop Gigabit Ethernet Switch

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Contents

Chapter 1 Introduction ---------- 3
1.1 Switch Features---------- 3
1.2 Package Contents---------- 3
Chapter 2 Physical Description ---------- 4
2.1 Front Panel and Back Panel Configurations ---------- 4
2.2 LED Designations ---------- 4
Chapter 3 Installation---------- 5
3.1 Preparing the site---------- 5
3.2 Connecting to the terminal device ---------- 5
3.3 Switch to Router or Switch---------- 6
Appendix 1 Product Specification ---------- 7

Chapter 1 Introduction

The SG50/SG80 5/8-Port Desktop Gigabit Ethernet Switch, mini and exquisite, is especially designed for small-sized networking. It provides 5/8 10/100/1000Mbps Auto-negotiation ports and supports Auto MDI/MDIX. These Gigabit ports can be used not only as ordinary ports, but as Uplink ports connected to other networking devices. With SG50/SG80, you can make the power of Gigabit connectivity to eliminate bottlenecks, boost performance, and increase productivity, because the speed at each port can be up to 2000Mbps in full-duplex mode. Moreover, it can be set up easily and needs no network management. It is a perfect choice to improve the speed between different departments and servers.

1.1 Switch Features

The following lists identify the key features of the switch:

- Complies with IEEE802.3, IEEE802.3u and IEEE802.3ab Ethernet standards
- Supports Auto MDI/MDIX on each port
- Supports NWAY Auto-Negotiation function
- Provides 5/8 10/100/1000Mbps Auto-Negotiation RJ-45 ports
- Supports IEEE802.3x flow control for full-duplex and Backpressure flow control for half-duplex
- Provides up to 10/16Gbps backplane bandwidth and non-blocking line speed forwarding
- Supports store-and-forward switching method
- Provides 4K MAC address entries and MAC address self-learning/auto-aging
- Desktop and mini plastic shell design

1.2 Package Contents

Please verify that the package contains the following articles:

- One 5/8-Port Desktop Gigabit Ethernet Switch
- One Power Adapter
- One User Guide

If any item is missing or damaged, please contact the place of purchase immediately.

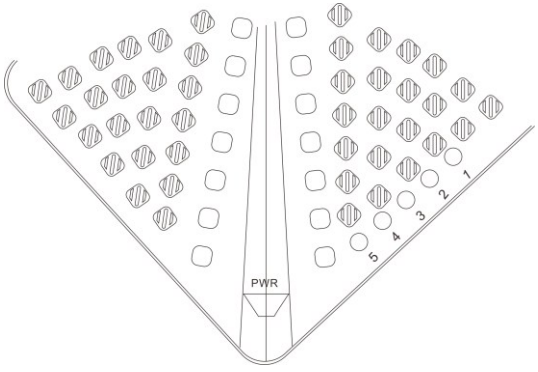
Chapter 2 Physical Description

2.1 Front Panel and Back Panel Configurations

The front panel contains the following:

1) 5/8 Link/Act LEDs

2) one power LED

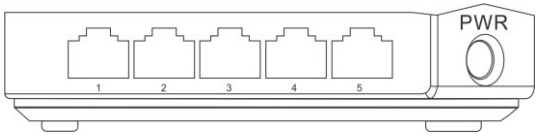


The front panel of the Switch（Take SG50 for example）

The Back Panel contains the following:

1) 5/8 10/100/1000Mbps RJ-45 ports

2) one DC power port used for DC power input.



The back panel of the Switch（Take SG50 for example）

Notice*: *Please use the provided power adapter. If not, the Switch may be damaged.

2.2 LED Designations

The following table describes the LED designations of the switch.

LED	Color	Status	Description
Power	Green	ON	Indicates a proper connection to the switch.
	—	OFF	Indicates no DC power device connected to the switch
Link/act	Green	ON	Indicates a valid 10/100/1000Mbps link is established on the port.
		Blinking	Indicates packet transmission or reception is occurring on the port at 10/100/1000Mbps.
	—	OFF	Indicates the connection fails.

Chapter 3 Installation

3.1 Preparing the site

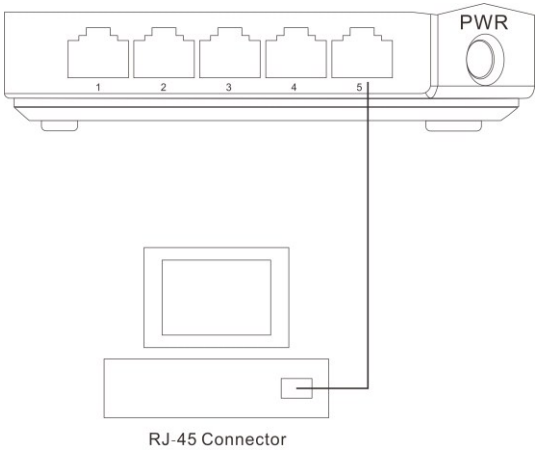
Before installing the switch, ensure the operating environment meets the requirements in the following table.

Site Requirements:

Characteristics	Requirements
Mounting	Desktop Installation: Provide a flat table or shelf surface.
Access	Locate the switch in a position that allows access to the front panel, the ability to view the front panel LEDs, and easy safe access to the power connector.
Power Source	Provide a power source within 5 feet (1.5 meters) of the installation location. Power specifications for the switch are shown in Appendix 1: Product Specification. Ensure the AC outlet is not controlled by a wall switch, which can accidentally turn off power to the outlet and the switch.
Environmental	• Temperature - Install the switch in a dry area, with ambient temperature between 0 and 40ºC (32 and 104ºF). Keep the switch away from heat sources such as direct sunlight, warm air exhausts, hot-air vents, and heaters. • Operating humidity - The installation location should have a maximum relative humidity of 90%, non-condensing. • Ventilation - Do not restrict airflow by covering or obstructing air inlets on the sides of the switch. Keep at least 2 inches (5.08 centimeters) free on all sides for cooling. Be sure there is adequate airflow in the room or wiring closet where the switch is installed. • Operating conditions - Keep the switch at least 6 feet away from nearest source of electromagnetic noise, such as a photocopy machine.

3.2 Connecting to the terminal device

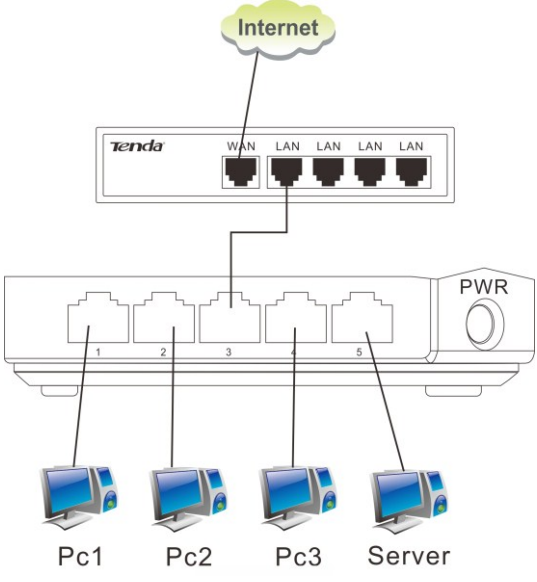
Use standard Ethernet cable to connect the Switch to the terminal device as described below. Switch ports will automatically adjust to the characteristics (speed/duplex) of the device to which is connected.



Switch connecting to the terminal device（Take SG50 for example）

Please refer to the LED designations. The Link/Act LEDs for each port lights green when the link is available.

3.3 Switch to Router or Switch



Connecting to another router or switch（ Take SG50 for example ）

Please refer to the LED designations. The Link/Act LEDs for each port lights green when the link is available.

Appendix 1 Product Specification

Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100 Base-TX Fast Ethernet IEEE802.3ab Gigabit Ethernet
Protocol	CSMA/CD
Topology	Star
Network Cables	10 Base-T: Cat.3 UTP or above 100 Base-TX: Cat.5 UTP /STP 1000Base-T: Cat.5, Cat.5e or Cat.6 UTP/STP
Speed	10/100/1000Mbps
Transmission Method	Store-and-forward
MAC Address Table	4K entries
Packet Filtering/ Forwarding Rate	14880pps(10Mbps) per port
	148800pps(100Mbps) per port
	1488000pps(1000Mbps) per port
MAC Address Learning	Self-learning, auto-aging
Power	External universal power supply
DC Input	DC 9V 600mA
Power Consumption	2.9W/3.9W
Operating Temperature	0^{O}C ~40^{O}C
Storage Temperature	-40^{O}C ~70^{O}C
Operating Humidity	10%~90% RH no condensing
Storage Humidity	5%~90% RH no condensing

If you still have some problems, please contact our customer service

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